



CITY OF LEMON GROVE

LEMON GROVE SANITATION DISTRICT STAFF REPORT

Item No. 3

Meeting Date: April 2, 2019

Submitted to: Honorable Chair and Members of the Lemon Grove Sanitation District

Department: Public Works Department

Staff Contact: Mike James, Assistant City Manager

mjames@lemongrove.ca.gov

Item Title: Amendment to the Fiscal Year 2017-2018 Sewer Capital Improvement Project Budget

Recommended Action: Adopt a resolution amending the Fiscal Year 2017-18 Sewer Capital Improvement Project budget.

Summary: The Lemon Grove Sanitation District Board awarded the FY2017-18 Sewer Capital Improvement Project on February 19, 2019 based on the completed Sanitary Sewer Master Plan which was presented and approved by the Lemon Grove Sanitation District Board (Board) on October 17, 2017. When the project was awarded in February, staff has received updated cost estimates for storm water inspection and materials testing. Additionally, the construction inspection component of this project was also recommended to be a contract service due to the existing workload of staff in the Public Works Department.

Discussion: The FY2017-18 Sewer Capital Improvement Project will install cured-in-place pipe lining in existing sewer mains at various locations within the City, install a new sewer main, make sewer point repairs, install new sewer cleanouts and install new sewer manholes. Because of the magnitude and duration of this project, staff determined it was best to outsource the construction inspection in addition to Stormwater inspection and material testing.

Based on the project scope of work and budgets of previous projects, staff recommended the following project budget with the original staff report on February 19, 2019:

Description	Amount
Construction Costs	\$338,290.00
Contingency (10%)	\$33,829.00
Materials Testing	\$7,000.00
Inspection	\$5,000.00
Other costs (easement, copies, etc.)	\$1,000.00
Total	\$385,119.00

After reviewing the scope of work staff reached out to the on-call engineering firms for proposals for construction inspection services and material testing. Below staff details the approved budget, the proposed budget, and the change between the two budgets. After evaluating the scope of work, duration of the project, proposals for the construction inspection, material testing and further consideration, staff recommends the proposed budget:

Description	Approved Budget	Proposed Budget	Change in Budget
Construction Costs	\$338,290.00	\$338,290.00	\$0.00
Contingency (10%)	\$33,829.00	\$33,829.00	\$0.00
Materials Testing	\$7,000.00	\$16,027.00	\$9,027.00
Stormwater Inspection	\$5,000.00	\$1,500.00	-\$3,500.00
Construction Inspection	\$0.00	\$47,250.00	\$47,250.00
Other costs (easement, advertisement, copies, etc...)	\$1,000.00	\$1,000.00	\$0.00
Total	\$385,119.00	\$437,896.00	\$52,777.00

Staff opted to contract out all inspection services for this project rather than perform the work in house. While the work is well within staff's ability to perform, the additional inspection work of this one project will delay or eliminate the ability of staff to perform inspection at other public construction projects as well as private development projects.

Environmental Review:

- ☐ Not subject to review
 ☐ Negative Declaration
- ☒ Categorical Exemption, Section 15302
 ☐ Mitigated Negative Declaration

Fiscal Impact: The adjusted project budget is estimated not to exceed \$437,896.00. Funding has been allocated from the Sanitation District in the Fiscal Year 2018-2019 budget.

Public Notification: None.

Staff Recommendation: Adopt a resolution amending the Fiscal Year 2017-18 Sewer Capital Improvement Project budget.

Attachments:

Attachment A – Resolution

Attachment B – Inspection Proposals

RESOLUTION NO. 2019 -

**A RESOLUTION OF THE DISTRICT BOARD OF THE LEMON GROVE
SANITATION DISTRICT, CALIFORNIA, AMENDING THE FY2017-18 SEWER
CAPITAL IMPROVEMENT PROJECT BUDGET**

WHEREAS, on February 19, 2019 the Lemon Grove Sanitation District Board (Board) awarded the FY2017-18 Sewer Capital Improvement Project, and

WHEREAS, the approved budget for the FY2017-18 Sewer Capital Improvement Project was \$385,119.00; and

WHEREAS, staff received updated cost estimates for storm water inspection, materials testing, and construction inspection after the project's approval that exceeded the original project contingency amount; and

WHEREAS, approval of the revised project budget and work is necessary to complete the project; and

WHEREAS, staff finds it in the public interest to amend the original budget to include construction inspection and materials testing; and

NOW, THEREFORE, BE IT RESOLVED that the Lemon Grove Sanitation District hereby amends the original project budget from \$385,119 to \$437,896.

PASSED AND ADOPTED on _____, 2019, the Lemon Grove Sanitation District, California, adopted Resolution No. _____, passed by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Racquel Vasquez, Board Chair

Attest: Shelley Chapel, MMC, District Clerk

Approved as to Form: Kristen Steinke, District Attorney



March 19, 2019
Proposal No. 106355058

Ms. Stephanie Boyce
City of Lemon Grove
3232 Main Street
Lemon Grove, California 91945

Subject: Scope and Fee Estimate for Materials Testing Services
FY 2017-18 Sewer Capital Improvement Project: Rehabilitation
Lemon Grove, California

Dear Ms. Boyce:

In accordance with your request, we have prepared this Scope and Fee Estimate for providing material testing services on the subject project. We understand the project is to include the replacement of 6-inch sewer lines at various locations in the City of Lemon Grove. The construction will include a total of approximately 150 lineal feet of pipelines, as well as the construction of new manholes. Our services will be needed for observation of the bottom of the trench and pipe bedding. We will also provide observations and testing of trench backfill, subgrade, aggregate base, and asphalt concrete. Additional services are anticipated for the sampling of concrete utilized in the construction of manhole risers.

PROPOSED SCOPE OF SERVICES

A construction schedule was not available at the time of this proposal, and approximately 112 hours of on-call materials testing services is estimated based on the information that was provided. We anticipate providing the following services at your request:

- Observation by our field technician of trench bottoms. Observation and testing by our field technician of trench backfill, subgrade, aggregate base, and asphalt concrete. In-place density tests will be conducted in general accordance with nuclear gauge methods (ASTM International [ASTM] D 6938). The technician will prepare daily field reports describing the work performed and summarizing the results of the tests conducted.
- Sampling and testing of concrete placement by our ACI-credentialed technician. Our technician will measure the concrete for temperature and slump and cast specimens for compressive strength.

5710 Ruffin Road | San Diego, California 92123 | p. 858.576.1000 | www.ninyoandmoore.com

- Laboratory testing of the materials used for bedding, backfill, aggregate base, asphalt pavement, and concrete. The tests performed are anticipated to include Proctor density/optimum moisture content (ASTM D 1557), sand equivalent, sieve analysis, Hveem density (D1188), and compressive strength (C39). Other tests will be performed, as requested.
- Preparation of a summary report presenting the results of our testing and our opinion of the conformance of the work with the project specifications.

FEE ESTIMATE

The materials testing services described will be provided on a time-and-expense basis accrued in accordance with the schedule of fees presented with our Agreement for As-needed Geotechnical Engineering Services (Contract No. 2015-11). We estimate the fee for our services described herein is approximately \$16,027 (Sixteen Thousand Twenty-Seven Dollars). A breakdown of this fee is presented in the attached Table 1.

These estimated costs are based on our assumptions of the anticipated services and will depend on the construction schedule and the contractor's operations. It should be noted that the performance of the subcontractors can substantially effect the duration of our services. Requested services not within the specified scope of services or in excess of those presented in Table 1 will be provided, based on time and materials, in accordance with our schedule of fees for our current as-needed services contract. We look forward to working with you on this project.

Respectfully submitted,
NINYO & MOORE

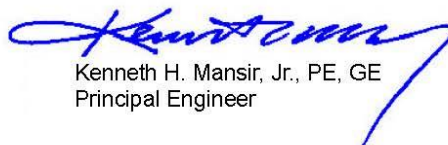


Brian Matusek
Senior Staff Geologist

JH/BTM/KHM/gg

Attachment: Table 1 – Estimated Fee Breakdown

Distribution: (1) Addressee



Kenneth H. Mansir, Jr., PE, GE
Principal Engineer

Table 1 – Breakdown of Estimated Fee				
Sewer Trench Backfill Observations and Testing				
Senior Staff Engineer/Geologist	4 hours	\$141.00 /hour	\$	564.00
Senior Field/Laboratory Technician	80 hours	\$87.00 /hour	\$	6,960.00
Field Vehicle Usage	80 hours	\$12.00 /hour	\$	960.00
Sand Equivalent, D 2419, CT 217	1 tests	\$90.00 /test	\$	90.00
Sieve Analysis, D 422, CT 202, Field	1 tests	\$120.00 /test	\$	120.00
Proctor Density - D 1557 or D 698, Field	2 tests	\$200.00 /test	\$	400.00
Subtotal			\$	9,094.00
Pavement Section Observation and Testing				
Senior Staff Engineer/Geologist	2 hours	\$141.00 /hour	\$	282.00
Senior Field/Laboratory Technician	16 hours	\$87.00 /hour	\$	1,392.00
Field Vehicle Usage	16 hours	\$12.00 /hour	\$	192.00
Hveem Stability and Unit Weight CTM or ASTM, CT 366	1 tests	\$215.00 /test	\$	215.00
Extraction, % Asphalt, including Gradation, D 2172, CT 310	1 tests	\$240.00 /test	\$	240.00
Subtotal			\$	2,321.00
Concrete Sampling and Testing				
ACI Concrete Technician	16 hours	\$87.00 /hour	\$	1,392.00
Field Vehicle Usage	16 hours	\$12.00 /hour	\$	192.00
Compression Tests, 6x12 Cylinder, C 39	4 tests	\$25.00 /test	\$	100.00
Subtotal			\$	1,684.00
Project Management and Report Preparation				
Principal Engineer/Geologist	4 hours	\$168.00 /hour	\$	672.00
Senior Staff Engineer/Geologist	16 hours	\$141.00 /hour	\$	2,256.00
Subtotal			\$	2,928.00
TOTAL ESTIMATED FEE			\$	16,027.00



*Construction Management,
Engineering, and
Environmental Sciences*

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January 11, 2019

Ms. Stephanie Boyce
City of Lemon Grove
3232 Main Street
Lemon Grove, CA 91945

Re: Inspection Services – Sewer CIP Cured In-place Pipe Lining.

Ms. Boyce:


We appreciate the opportunity to provide inspection services for the City. Per your January 8, 2019 email we will provide an inspector for 350 hours to inspect the subject project. Note that this estimate will be billed on a time and materials basis – meaning that if we don't use the hours the City obviously won't be billed for them. Therefore, our estimated cost is as follows:

- **Inspection Services: \$135/hour X 350 hours = \$47,250.00. This work will be done T&M and can vary based on actual time used.**

Note: Prevailing Wages Apply.

Please call me if you have any questions.

Sincerely,



George Litinger, PE
Principal